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## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## **Listing of Claims:**

- 1. (currently amended) A disposable absorbent article comprising a nanofabricated attachment means comprising adhesive hairs disposed on a flexible substrate wherein said hairs are effective to adhesively engage an opposing surface comprising a polymeric film or a fibrous web, wherein the attachment means has a packing density of at least 500 hairs per square millimeter, and wherein the hairs do not consist of a spatula or protrusion positioned at a terminal end of the hairs.
- 2. (canceled)
- 3. (original) The article of claim 1 wherein said hairs have an average diameter of about 50 microns or less and an average height-to-diameter ratio of about 3 or greater.
- 4. (original) The article claim 1 wherein said hairs are effective to adhesively engage an opposing surface comprising a polymeric film or fibrous web with an average adhesive force of 10 nanoNewtons or greater per hair.
- 5. (currently amended) A disposable absorbent article comprising a gecko-like adhesive fastener including a flexible substrate, a plurality of adhesive hairs rising from said substrate, said adhesive hairs each having a base section, a midsection, a top section, a height of about 0.5 microns to about 8 millimeters, and a diameter of about 0.05 microns to about 50 microns, wherein the hairs do not consist of a spatula or protrusion positioned at a terminal end of the top section.

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Appl. No. 10/747,923 Amdt. dated December 23, 2008

Reply to Office Action of November 26, 2008

- 6. (canceled)
- 7. (original) The article of claim 5 wherein said hairs have a height of about 2 microns to about 1000 microns.
- 8. (original) The article of claim 5 wherein said hairs have a diameter of about 0.05 microns to about 10 microns.
- 9. (original) The article of claim 5 wherein said hairs are spaced apart by a first distance of about 1 micron to about 1000 microns.
- 10. (original) The article of claim 5 wherein said hairs are spaced apart by a second distance of about 1 micron to about 1000 microns.
- 11. (original) The article of claim 5 wherein the ratio of a first distance between said hairs to the diameter of said hairs is about 3 to about 100.
- 12. (original) The article of claim 5 wherein the ratio of a second distance between said hairs to the diameter of said hairs is about 3 to about 100.
- 13. (original) The article of claim 5 wherein the ratio of the height of said hairs to the diameter of said hairs is about 2 to about 1000.
- 14. (original) The article of claim 5 wherein at least one of said hairs is perpendicular to the plane of said substrate.

- 15. (original) The article of claim 5 wherein at least one of said hairs is oriented at an angle between 0° and 90° to the plane of said substrate.
- 16. (original) The article of claim 5 wherein at least one of said hairs is axisymmetric.
- 17. (canceled)
- 18. (canceled)
- 19. (canceled)
- 20. (original) The article of claim 5 wherein at least one of said hairs is hollow.
- 21. (original) The article of claim 5 wherein said at least one hair comprises hollow materials, microspheres, carbon nanotubes, zeolites, or combinations thereof.
- 22. (original) The article of claim 5 wherein said hairs comprise molecules with hollow chambers.
- 23. (original) The article of claim 22 wherein said molecules are cyclodextrins, crown ethers, polyhedral oligomeric silsequioxanes, or combinations thereof.
- 24. (original) The article of claim 5 wherein said substrate is apertured.
- 25. (original) The article of claim 5 wherein said substrate is a liquid impervious web.

- 26. (original) The article of claim 5 wherein the thickness of said substrate comprises a repeating pattern of thickness variations.
- 27. (original) The article of claim 5 wherein said substrate is creped, embossed, apertured, coated, or combinations thereof.
- 28. (original) The article of claim 27 wherein said coating is on at least one side of said substrate.
- 29. (original) The article of claim 27 wherein said coating is hydrophobic.
- 30. (original) The article of claim 27 wherein said coating is hydrophilic.
- 31. (original) The article of claim 27 wherein said coating is a metal oxide.
- 32. (original) The article of claim 27 wherein said metal oxide is titanium dioxide treated with a UV absorbing material that is thermally treated.
- 33. (original) The article of claim 5 wherein said substrate comprises regions of elastic material.
- 34. (original) The article of claim 5 wherein said substrate is substantially elastic and homogeneous.
- 35. (currently amended) The article of claim 5 wherein said substrate contains discrete eleastic regions separated by less elastic regions.

- 36. (currently amended) The article of claim 5 wherein said substrate contains discrete eleastic regions separated by inelastic regions.
- 37. (original) The article of claim 5 wherein said fastener is stretchable.
- 38. (original) The article of claim 5 wherein said fastener comprises elastic regions.
- 39. (original) The article of claim 5 wherein an attachment surface of said fastener is elastic, inelastic, or combination thereof.
- 40. (original) The article of claim 5 wherein said fastener is adapted for fastening said article to itself.
- 41. (original) The article of claim 5 wherein said fastener is adapted for fastening said article to another object.
- 42. (original) The article of claim 5 wherein said fastener is adapted for joining two or more components of said article.
- 43. (original) The article of claim 5 wherein said fastener comprises part of a side seam of said article.
- 44. (original) The article of claim 5 wherein said fastener comprises a three-dimensional topography characterized by a series of peaks and valleys.

12-23-2008

- 45. (currently amended) The article of claim 44 wherein said peaks and valleys alternate in <u>a first</u> direction.
- 46. (previously presented) The article of claim 44 wherein groups of hairs are selectively disposed on said peaks of said substrate, said valleys of said substrate, or combination thereof.
- 47. (original) The article of claim 5 wherein said hairs are protected from contamination with other materials until pressed into contact with an opposing surface.
- 48. (original) The article of claim 5 wherein said hairs are protected with a removable cover.
- 49. (original) The article of claim 5 wherein said fastener comprises substantially hair free regions between groups of hair.
- 50. (original) The article of claim 5 wherein said hairs are disposed substantially uniformly along the fastener.
- 51. (original) The article of claim 5 wherein said hairs are disposed substantially randomly along the fastener.
- 52. (withdrawn) A disposable absorbent article comprising at least one gecko-like fastener including a thin, flexible base layer onto which has been disposed spaced apart, discrete patches comprising a substrate supporting adhesive hairs rising from said substrate, said adhesive hairs each having a height of about 0.5 microns to about 8 millimeters, and a diameter greater than about 0.05 microns, and substantially adhesive-hair-free regions of said base layer separating said patches.

- 53. (withdrawn) The article of claim 52 wherein said patches are spaced apart in a first direction of said base layer.
- 54. (withdrawn) The article of claim 53 wherein said first direction is in the machine direction.
- 55. (withdrawn) The article of claim 53 wherein said first direction is in the direction in which the base layer is most extensible.
- 56. (withdrawn) The article of claim 52 wherein said substrate is elastomeric.
- 57. (withdrawn) The article of claim 52 wherein said substrate is creped.
- 58. (withdrawn) The article of claim 52 wherein said substrate is foreshortened material that can be stretched in one or more directions.
- 59. (withdrawn) The article of claim 52 wherein said patches are thin films.
- 60. (withdrawn) The article of claim 59 wherein said film has a thickness of less than 50 microns.
- 61. (withdrawn) The article of claim 59 wherein said film has a thickness of about 0.05 millimeters to about 3 millimeters.

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9/27

Appl. No. 10/747,923

Amdt. dated December 23, 2008

Reply to Office Action of November 26, 2008

- 62. (withdrawn) The article of claim 52 wherein said patches have a Young's modulus greater than that of said base layer.
- 63. (withdrawn) A method of fastening a disposable absorbent article comprises attaching a gecko-like fastener to an opposing surface, wherein said fastener includes a substrate, a plurality of adhesive hairs rising from said substrate, said adhesive hairs having a height of about 0.5 microns to about 8 millimeters and a diameter greater than about 0.05 microns.
- 64. (withdrawn) The method of claim 63 wherein said opposing surface is hydrophilic, hydrophobic, or combination thereof.
- 65. (withdrawn) The method of claim 63 wherein said opposing surface comprises a synthetic material, natural material, or combination thereof.
- 66. (withdrawn) The method of claim 63 wherein said opposing surface comprises composite materials.
- 67. (withdrawn) The method of claim 63 wherein said opposing surface has a porosity less than ten-percent.
- 68. (withdrawn) The method of claim 63 wherein said opposing surface is a laminate.
- 69. (canceled)